**Amendments to the Claims**:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A gyro sensor, ~~characterized by~~ comprising:

a magnetostrictive member made of a magnetostrictive element and formed of a substantially parallel piped member;

a drive coil for vibrating the magnetostrictive member by controlling the intensity of a magnetic field applied to the magnetostrictive member; and

detecting means including a magnetic resistance element for detecting changes in magnetic permeability or remnant magnetization of the magnetostrictive member in a face intersecting at a right angle and a face parallel with the direction in which the magnetostrictive member is vibrating as changes in electromotive force of the magnetic resistance element, wherein changes in angular speed around a rotation axis that is orthogonal to a direction in which the magnetostrictive member vibrates are detected as changes in magnetic permeability or remnant magnetization of the magnetostrictive member caused by deformation thereof, which is brought about by the Coriolis force.

2. (Original) The gyro sensor according to claim 1, wherein the drive coil vibrates the magnetostrictive member at a resonant frequency.

3–4. (Canceled)

5. (Previously Presented) The gyro sensor according to claim 1, wherein:

a magnetic biasing magnet is tightly attached to one side of the magnetostrictive member; and

a soft magnetic member around which the drive coil is disposed is tightly attached to an opposite side of the magnetostrictive member.

6. (Previously Presented) The gyro sensor according to claim 1, wherein the magnetostrictive member is a giant magnetostrictive member made of a giant magnetostrictive element.

7–8. (Canceled)

9. (Previously Presented) The gyro sensor according to claim 2, wherein:

a magnetic biasing magnet is tightly attached to one side of the magnetostrictive member; and

a soft magnetic member around which the drive coil is disposed is tightly attached to an opposite side of the magnetostrictive member.

10–11. (Canceled)

12. (Previously Presented) The gyro sensor according to claim 2, wherein the magnetostrictive member is a giant magnetostrictive member made of a giant magnetostrictive element.

13. (Canceled)

14. (Previously Presented) The gyro sensor according to claim 5, wherein the magnetostrictive member is a giant magnetostrictive member made of a giant magnetostrictive element.

15. (Canceled)